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1	1. A computer-implement method of accessing multimedia information
2	stored in a multimedia document using a paper document, the method comprising:
3	receiving by a computer at least one identifier representative of at least one bar
4	code scanned by a user from among a plurality of bar codes printed on the paper document, each
5	bar code corresponding to a point in time in the multimedia document;
6	determining by the computer one or more time ranges based upon the at least one
7	identifier, each time range having a start time and an end time; and
8	determining by the computer one or more portions of multimedia information
9	corresponding to the one or more time ranges, wherein each portion of multimedia information
10	comprises information from the multimedia document occurring between the start time and end
11	time associated with the corresponding time range; and
12	outputting by the computer for play on the computer or a remote computer the
13	portions of multimedia information corresponding to the one or more time ranges,
14	wherein the step of determining one or more time ranges comprises one of:
15	determining a first time associated with a first identifier from among said
16	at least one identifier and determining a second time associated with a second identifier
17	from among said at least one identifier; or
18	subtracting a first time amount from a time value associated with the at
19	least one identifier to produce a first time and adding a second time amount to the time
20	value associated with the at least one identifier to produce a second time,
21	wherein the one or more time ranges comprises the first time and the
22	second time.

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The method of claim 1 wherein:

2 the multimedia information comprises information of a first type and information
3 of a second type; and

the step of determining by the computer one or more portions of multimedia information comprises determining at least one of information of the first type and information of the second type from the multimedia document occurring between the first time and second time.

- 1 3. The method of claim 2 wherein the information of the first type is video information and the information of the second type is at least one of audio information and closed-caption text information.
  - 4-8. (Canceled)
- 1 9. The method of claim 1 wherein the first time amount and the second time 2 amount are determined using information received from the user.

# 10-12. (Canceled)

- 13. The method of claim 1 wherein performing the at least one operation comprises communicating by the computer the portions of multimedia information to a recipient.
- 1 14. The method of claim 13 wherein outputting the portions of multimedia 2 information comprises communicating by the computer the portions of multimedia information 3 via an electronic mail addressed to the recipient.
- 1 15. The method of claim 13 wherein outputting the portions of multimedia 2 information comprises communicating by the computer the portions of multimedia information 3 via facsimile.
- 1 16. The method of claim 1 further comprising deleting by the computer the portions of multimedia information.

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- 1 17. The method of claim 1 further comprising printing by the computer a representation of the portions of multimedia information on a paper medium to generate a second paper document.
- 1 18. The method of claim 1 further comprising storing by the computer the 2 portions of multimedia information.
- 1 19. The method of claim 1 further comprising:

receiving by the computer information indicative of selection of one or more
 additional identifiers from a set of identifiers printed on the paper document;

determining by the computer one or more operations based upon the one or more additional identifiers from the set of identifiers; and

performing at least one operation from the one or more operations on the portions of multimedia information corresponding to the one or more time ranges.

- 1 20. The method of claim 19 wherein performing the at least one operation
  2 comprises ranking by the computer the one or more time ranges based upon contents of the
  3 portions of multimedia information corresponding to the one or more time ranges.
- 1 21. The method of claim 20 wherein ranking the one or more time ranges 2 comprises:

3 for each time range in the one or more time ranges, determining by the computer a
4 relevance of a user-specified criterion with the portion of multimedia information corresponding
5 to the time range; and

ranking by the computer the one or more time ranges based upon the relevance of the user-specified criterion with the portions of multimedia information corresponding to the time ranges.

1 22. The method of claim 21 wherein the user-specified criterion identifies a topic of interest.

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1	23. The method of claim 19 wherein performing the at least one operation
2	comprises grouping by the computer the one or more time ranges into one or more groups based
3	upon contents of the portions of multimedia information corresponding to the one or more time
4	ranges.
1	24. A system comprising:
2	at least one processor;
3	a memory operatively coupled to the processor, the memory storing program
4	instructions that when executed by the processor, cause the processor to:
5	receive at least one identifier representative of at least one bar code
6	scanned by a user from among a plurality of bar codes printed on the paper document,
7	each bar code corresponding to a point in time in a multimedia document;
8	determine one or more time ranges based upon the at least one identifier,
9	each time range having a start time and an end time; and
10	determine one or more portions of multimedia information corresponding
11	to the one or more time ranges, wherein each portion of multimedia information
12	comprises information from the multimedia document occurring between the start time
13	and end time associated with the corresponding time range;
14	output for play on the computer or a remote computer the portions of
15	multimedia information corresponding to the one or more time ranges,
16	wherein the one or more time ranges are determined by program
17	instructions that when executed by the processor cause the processor to:
18	determine a first time associated with a first identifier from among
19	said at least one identifier and determine a second time associated with a second
20	identifier from among said at least one identifier; or
21	subtract a first time amount from a time value associated with the
22	at least one identifier to produce a first time and add a second time amount to the

time value associated with the at least one identifier to produce a second time,

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24 wherein the one or more time ranges comprises the first time and 25 the second time.

The system of claim 24 wherein:

the multimedia document comprises information of a first type and information of a second type; and

the program instructions when executed by the processor, cause the processor to

determine at least one of information of the first type and information of the second type from

the multimedia document occurring between the first time and second time.

1 26. The system of claim 25 wherein the information of the first type is video information and the information of the second type is at least one of audio information and closed-caption text information.

#### 27-31. (Canceled)

32. The system of claim 24 wherein the first time amount and the second time
 amount are user-configurable.

## 33-35. (Canceled)

- 1 36. The system of claim 24 wherein the program instructions when executed by the processor, cause the processor to communicate the portions of multimedia information to a recipient.
- 1 37. The system of claim 36 wherein the program instructions when executed by the processor, cause the processor to send the portions of multimedia information to the recipient via an electronic mail.
- 1 38. The system of claim 36 wherein the program instructions when executed by the processor, cause the processor to communicate the portions of multimedia information via facsimile

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- 1 39. The system of claim 24 wherein the program instructions when executed 2 by the processor, cause the processor to delete the portions of multimedia information from the 3 multimedia document.
- 1 40. The system of claim 24 wherein the program instructions when executed
  2 by the processor, cause the processor to print a representation of the portions of multimedia
  3 information on a paper medium to generate a second paper document.
- 1 41. The system of claim 24 wherein the program instructions when executed by the processor, cause the processor to store the portions of multimedia information.
- 1 42. The system of claim 24 wherein the program instructions when executed
  2 by the processor, cause the processor to: receive information indicative of selection of one or
  3 more additional identifiers from a set of identifiers printed on the paper document, determine one
  4 or more operations based upon the one or more additional identifiers from the set of identifiers,
  5 and perform at least one operation from the one or more operations on portions of multimedia
  6 information corresponding to the one or more time ranges.
  - 43. The system of claim 42 wherein the program instructions when executed by the processor, cause the processor to rank the one or more time ranges based upon contents of the portions of multimedia information corresponding to the one or more time ranges.
- 1 44. The system of claim 43 wherein the program instructions when executed
  2 by the processor, cause the processor to: for each time range in the one or more time ranges,
  3 determine relevance of the portion of the multimedia information corresponding to the time
  4 range to a user-specified criterion, and rank the one or more time ranges based upon the
  5 relevance of the portions of multimedia information to the user-specified criterion.
- 1 45. The system of claim 44 wherein the user-specified criterion identifies a topic of interest.

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1	46. The system of claim 42 wherein the program instructions when executed
2	by the processor, cause the processor to group the one or more time ranges into one or more
3	groups based upon contents of the portions of multimedia information corresponding to the one
4	or more time ranges.
1	47. A computer program product for accessing multimedia information stored
2	in a multimedia document using a paper document, the computer program product comprising:
3	a computer-readable storage medium having stored thereon computer program
4	code, the computer program code comprising:
5	code for receiving by a computer at least one identifier representative of at
6	least one bar code scanned by a user from among a plurality of bar codes printed on the
7	paper document, each bar code corresponding to a point in time in the multimedia
8	document;
9	code for determining by the computer one or more time ranges based upon
10	the at least one identifier, each time range having a start time and an end time;
11	code for determining by the computer one or more portions of multimedia
12	information corresponding to the one or more time ranges, wherein each portion of
13	multimedia information corresponding to a time range comprises information from the
14	multimedia document occurring between the start time and end time associated with the
15	corresponding time range; and
16	code for outputting by the computer for play on the computer or a remote
17	computer the portions of multimedia information corresponding to the one or more time
18	ranges,
19	wherein the code for determining one or more time ranges includes one of:
20	code for determining a first time associated with a first identifier
21	from among said at least one identifier and determining a second time associated
22	with a second identifier from among said at least one identifier; or
23	code for subtracting a first time amount from a time value

associated with the at least one identifier to produce a first time and adding a

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25 second time amount to the time value associated with the at least one identifier to 26 produce a second time,

27 wherein the one or more time ranges comprises the first time and 28 the second time

The computer program product of claim 47 wherein: 2 the multimedia information comprises information of a first type and information

3 of a second type; and

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4 the code for determining portions of the multimedia information comprises code for determining at least one of information of the first type and information of the second type 5 6 from the multimedia information occurring between the first time and second time.

1 49. The computer program product of claim 48 wherein the information of the 2 first type is video information and the information of the second type is at least one of audio 3 information and closed-caption text information.

50-54. (Canceled)

1 The computer program product of claim 47 wherein the first time amount 55 2 and the second time amount are user-configurable.

56-58. (Canceled)

- 1 59. The computer program product of claim 47 wherein the code for 2 outputting comprises code for communicating the portions of multimedia information to a 3 recipient.
- 1 60. The computer program product of claim 59 wherein the code for 2 communicating the portions of multimedia information to the recipient comprises code for 3 communicating the portions of multimedia information via an electronic mail addressed to the recipient. 4

1 61. The computer program product of claim 59 wherein the code for 2 communicating the portions of multimedia information to the recipient comprises code for 3 communicating the portions of multimedia information via facsimile.

## 62. (Canceled)

1 63. The computer program product of claim 47 wherein the code for
2 outputting comprises code for printing a representation of the portions of multimedia information
3 on a paper medium to generate a second paper document.

#### 64. (Canceled)

- 1 65. The computer program product of claim 47 further comprising:
  2 code for receiving information indicative of selection of one or more additional
  3 identifiers from a set of identifiers printed on the paper document;
  4 code for determining one or more operations based upon the one or more
- 5 additional identifiers from the set of identifiers; and
  6 code for performing at least one operation from the one or more operations on the
  7 portions of multimedia information corresponding to the one or more time ranges.
- 1 66. The computer program product of claim 65 wherein the code for
  2 performing the at least one operation comprises code for ranking the one or more time ranges
  3 based upon contents of the portions of multimedia information corresponding to the one or more
  4 time ranges.
- 67. The computer program product of claim 66 wherein the code for ranking
   the one or more time ranges comprises:
- 3 code for determining, for each time range in the one or more time ranges,
  4 relevance of the portion of multimedia information corresponding to the time range to a user-
- 5 specified criterion; and

- 6 code for ranking the one or more time ranges based upon the relevance of the
  7 portions of multimedia information corresponding to the time ranges to the user-specified
  8 criterion.
- 1 68. The computer program product of claim 67 wherein the user-specified criterion identifies a topic of interest.
- 1 69. The computer program product of claim 65 wherein the code for
  2 performing the at least one operation comprises code for grouping the one or more time ranges
  3 into one or more groups based upon contents of the portions of multimedia information
  4 corresponding to the one or more time ranges.

70-72. (Canceled)